

Meeting Minutes

Call to order

A client meeting of the Autoclave Experts team is being held at EP 102 on 06/14/2018 with Dr. Stephens.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Approval of minutes

No objection...

Reports

The scope of this meeting was involved with familiarizing the team with the project. The team was responsible to ask questions from the client to start the project and prevent possible confusions.

Unfinished business

Project learning in progress.

New business

Continue project learning, Material research and design research.

Announcements

The next team meeting date and location was selected on 06/20/2018 at EP 103 lab with Dr. Beyerlein and Nick Shaber.

Bahram Sobbi

60

06/19/2018

Secretary

Meeting duration(min)

Date of approval

Meeting Minutes

Call to order

A meeting of Autoclave Expert was held at ASME Lounge on 06/19/2018.

Attendees

Attendees included Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab.

Approval of minutes

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Reports

[Need to add your own headings or more text? No problem. On the Home tab of the ribbon, check out the Styles gallery to easily apply any text formatting you see in this document.]

Old business

[Add your text here.]

Unfinished business

[Add your text here.]

New business

[Add your text here.]

Announcements

[Add your text here.]

Bahram Sobbi

Secretary

06/19/2018

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 06/20/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Additionally: Dr. Stephens, Dr. Beyerlein and Nick Shaber.

Approval of minutes

No objection

Reports

This meeting was involved with discussing what the team has accomplished. Questions were asked from the TA and the lead instructor Dr. Beyerlein. Manual can be requested from the manufacture (Cortest).

Unfinished business

Project learning in progress.

Announcements

The next meeting date and location was selected on 06/28/2018 at PE 103 lab.

Bahram Sobbi

Secretary

35

Meeting duration
(min)

06/20/2018

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts was held at EP 103 on 06/27/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer Steven.

Additionally: Dr. Steven Beyerline, Dr. Robert Stephens and Nick Shaber.

Approval of minutes

No objection

Reports

Team members illustrated the quotes they have received and discussed the products that have been researched. Nick suggested to consider the turn around speed of the actuator and the motor. The client was satisfied with purchasing the cheapest ball screw actuator system. The bill of materials need to be created for future meetings. Pressure will change with respect to the temperature, the team is responsible to evaluate how much does the temperature need to be varied to reach the 3,000 psi. A loadcell need to be researched in greater detail on how it is operating; a load cell highly preferred to be operating inside the autoclave chamber. Cortest company and Inconel provider are planned to be contacted by the client. A permission was given to the team to purchase an operating desktop, monitor and DAQ.

Unfinished business

Project learning in progress.

Announcements

The next meeting date and location was selected on 06/28/2018 at PE 103 lab.

Bahram Sobbi

Secretary

60

Meeting duration
(min)

06/27/2018

Date

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 07/11/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Additionally: Dr. Stephens, Dr. Beyerlein and Nick Shaber.

Approval of minutes

No objection

Reports

The meeting started with the load frame matrix. Dr. Stephens recommend purchasing a pump for hydraulic system and referred us to ASM material manufacture for purchasing Inconel. A presentation for design validation is chosen to be held on Monday where all students need to present in 20 minutes; bill of materials (BOM) needs to be created and presented as well. It is recommended to purchase the DAQ.

Unfinished business

Part research and quoting...

Announcements

The next meeting date and location was selected on 07/16/2018 at PE 209.

Bahram Sobbi

55

07/11/2018

Secretary

Meeting duration
(min)

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 07/18/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Additionally: Dr. Beyerlein and Nick Shaber.

Approval of minutes

No objection

Reports

The lead instructor advised the team to purchase all the parts (DAQ, controller, servo valve and the actuator) needed before end of summer semester. A seal and lid design need to be discussed along with how they are operating on final report and do some initial testing for proof of concept. The lead instructor also noted to follow all the protocols, monitor the pressure and temperature using the appropriate sensors before testing. He also advised the team to review the design every week and insert it in final report. All the manuals and data sheets need to be inserted in the final report binder.

Unfinished business

Ordering parts and prepping for initial testing

Announcements

The next meeting date and location was selected on 07/25/2018 at PE 109.

Bahram Sobbi

Secretary

50

Meeting duration
(min)

07/11/2018

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 07/25/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Additionally: Dr. Stephens and Nick Shaber.

Approval of minutes

No objection

Reports

The team explained the seal and lid design structure and how it operates to the client. The graphite packing was on hold that slowed down the testing procedure. The graphite packing lead to additional friction in the Inconel rod. The client seriously focused on testing the seal and lid before the end of summer session and finalizing the purchase time to maximize the testing time. Each team member would have access to enter the lab. The wiring can be done on the pump when it's received. Down time on school LabView server would interfere with test procedure running on the autoclave, to eliminate that a LabView seat can be purchased. Different DAQ module cards can be purchased from different manufacturer to speed up the purchasing time. A computer desk can be bought.

Unfinished business

Ordering parts and prepping for initial testing

Announcements

The next meeting date and location was selected on 07/30/2018 at PE 109.

Bahram Sobbi

50

07/11/2018

Secretary

Meeting duration
(min)

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 07/30/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen, Larry Schwab and Kevin Brewer.

Additionally: Dr. Beyerlein and Nick Shaber.

Approval of minutes

No objection

Reports

This meeting has begun by discussing all the purchased parts and the parts that we are waiting to purchase. A good discussion was made on creating an interface, LabView, to communicate with the autoclave and how safety features are operating. The lead instructor advised the team to bring all the hardware to the snapshot, show BOM and print PowerPoint slides to create a storyboard. The Wiki page needed to be updated before the snapshot. The lead instructor schedule for upcoming semester was discussed.

Unfinished business

Finalizing part purchase and prepping for initial testing

Announcements

The next meeting date and location was selected on 07/31/2018 at PE 109.

Bahram Sobbi

25

07/30/2018

Secretary

Meeting duration
(min)

Date of approval

Meeting Minutes

Call to order

A meeting of the Autoclave Experts is being held at EP 103 on 07/31/2018.

Attendees

Attendees: Tyler Jones, Bahram Sobbi, Titus Hansen and Larry Schwab.

Additionally: Dr. Stephens and Nick Shaber.

Approval of minutes

No objection

Reports

This meeting started with showing purchase rundown to the client. The client also brought up the pressure and static friction that would be on the shaft. The servo valve was confirmed, and it could be purchased. The client has mentioned that manifold can be built using existing material in the shop, he also mentioned that the Direct Current Potential Drop (DCPD), reservoir thermometer and lever sensor have not been listed on the purchase list and they could potentially be purchased. The software part of this project was discussed with the client, different tabs and their potentials use were explained. The client advised us to print the SolidWorks drawings and take the LabView program created to the snapshot. The lead instructor has stressed on making a schedule for the upcoming semester and discuss how much time need to be spent in the machine shop. The goal is to finish all the purchasing, programming, machining parts and start assembling by September 17th.

Unfinished business

Finalizing part purchase and prepping for fall semester.

Announcements

Bahram Sobbi

25

07/30/2018

Secretary

Meeting duration
(min)

Date of approval

This is the last team meeting for summer semester.